For Research Use Only

Mouse NCAM1/CD56 Recombinant antibody, PBS Only

Catalog Number:83883-5-PBS

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Basic Information

Catalog Number:
83883-5-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
EG0652

GenBank Accession Number:

GeneID (NCBI):
17967

UNIPROT ID:
P13595-1

Full Name:
neural cell adhesion molecule 1

Calculated MW:
119 kDa

Observed MW:
120 kDa, 140 kDa, 180 kDa

Purification Method:
Protein A purfication

CloneNo.:
240936B10

Applications

Tested Applications:
IHC, IF/ICC, ELISA

Species Specificity:
mouse

Background Information

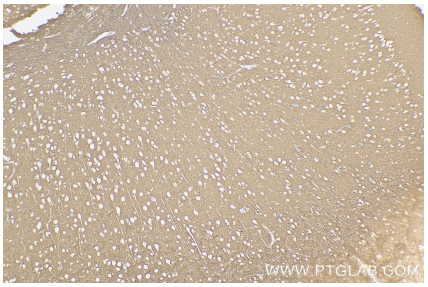
Neural cell adhesion molecule 1 (NCAM1, also known as CD56) is a cell adhesion glycoprotein of the immunoglobulin (Ig) superfamily. It is a multifunction protein involved in synaptic plasticity, neurodevelopment, and neurogenesis. NCAM1 is expressed on human neurons, glial cells, skeletal muscle cells, NK cells, and a subset of T cells, and the expression is observed in a wide variety of human tumors, including myeloma, myeloid leukemia, neuroendocrine tumors, Wilms' tumor, neuroblastoma, and NK/T cell lymphomas. Three major isoforms of NCAM1, with molecular masses of 120, 140, and 180 kDa, are generated by alternative splicing of mRNA (PMID: 9696812). The glycosylphosphatidylinositol (GPI)-anchored NCAM120 and the transmembrane NCAM140 and NCAM180 consist of five Ig-like domains and two fibronection-type III repeats (FNIII). All three forms can be posttranslationally modified by the addition of polysialic acid (PSA) (PMID: 14976519). Several other isoforms have also been described (PMID: 1856291).

Storage

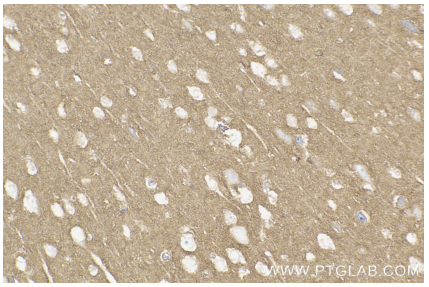
Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

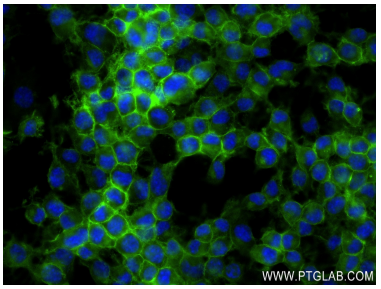
Selected Validation Data



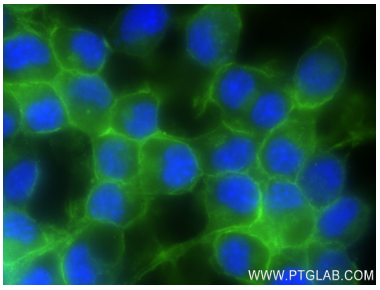
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 83883-5-RR (NCAM1/CD56 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83883-5-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 83883-5-RR (NCAM1/CD56 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83883-5-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed Neuro-2a cells using Ncam1 antibody (83883-5-RR, Clone: 240936B10) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 83883-5-PBS in a different storage buffer formulation.



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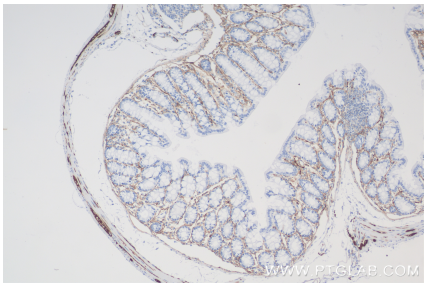
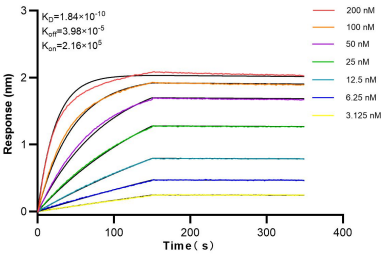


Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 83883-5-RR (NCAM1/CD56 antibody) at dilution of 1:9000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83883-5-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 83883-5-RR against Mouse Ncam1 were performed. The affinity constant is 0.184 nM.